

# PHYSICS

## ELECTRIFICATION AND MICROWAVE EMISSION BY COLLIDING PARTICLES

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### **Abstract**

A simple experimental method is used to explore contact charging and microwave emission by microdischarges. In these experiments, chrome steel spheres of known size are shaken between two parallel plates; the voltage and microwave emissions are observed. The plates are mounted inside a vacuum chamber which is fastened to a shaker. The results show the relationship between the voltage that is produced and the microwave emission.